

MAR 18 1987

**Material Safety Data Sheet**

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

IDENTITY (As Used on Label and List)

Bar's Leaks / Bar's Rust

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

Fre-Bar, Inc.

Emergency Telephone Number

Address (Number, Street, City, State, and ZIP Code)

720 West Rose St.

Telephone Number for Information

313-634-8278

Holly, Michigan 48442

Date Prepared

2/19/87

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))

OSHA PEL

ACGIH TLV

Other Limits
Recommended

% (optional)

Water Soluble Oil

5mg/m3 for oil mist

THE SPECIFIC FORMULA IS PROPRIETARY. INFORMATION WILL BE RELEASED TO MEDICAL
PROFESSIONALS UPON REQUEST.

Section III — Physical/Chemical Characteristics

Boiling Point

LOST MOISTURE (WATER) 212 F

Specific Gravity (H₂O = 1)

.92

Vapor Pressure (mm Hg.)

UNK

Melting Point

N/A

Vapor Density (AIR = 1)

UNK

Evaporation Rate

(Butyl Acetate = 1) 1000X SLOWER

Solubility in Water

EMULSIFIES

Appearance and Odor

AMBER TO DARK FLUID HYDROCARBON

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)

330 MIN COC

Flammable Limits

UNK

LEL

UEL

Extinguishing Media

WATER FOG, ALCOHOL FOAM, DRY CHEMICAL POWDER, CARBON DIOXIDE.

Special Fire Fighting Procedures

WEAR SELF-CONTAINED BREATHING APPARATUS WHEN FIRE FIGHTING IN CONFINED SPACE.

Unusual Fire and Explosion Hazards

N/A

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Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid) **STRONG OXIDIZERS**Hazardous Decomposition or Byproducts **CARBON MONOXIDE AND ASPHYXIANTS**

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard DataRoute(s) of Entry: Inhalation? ☒ Skin? ☒ Ingestion? ☒

Health Hazards (Acute and Chronic)

Carcinogenicity: NO NTP? IARC Monographs? OSHA Regulated? YES

Signs and Symptoms of Exposure

Medical Conditions Generally Aggravated by Exposure **INHALATION, NO ACUTE EFFECTS. SKIN, MODERATE IRRITATION.****EYE, MODERATE IRRITATION. INGESTION, ESTIMATED LD50**Emergency and First Aid Procedures **INHALATION, MOVE TO FRESH AIR. SKIN, WASH WITH WATER FOR AT LEAST 15 MIN. EYE, FLUSH****WITH WATER FOR AT LEAST 15 MIN.. OBTAIN MEDICAL ASSISTANCE. INGESTION, GIVE LIQUIDS AND****Section VII — Precautions for Safe Handling and Use INDUCE VOMITTING. OBTAIN MEDICAL ASSISTANCE.**Steps to Be Taken in Case Material is Released or Spilled **APPLY AN ABSORBENT TO SMALL SPILLS.**Waste Disposal Method **FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS, DO NOT FLUSH TO DRAIN/STORM SEWER.****CONTRACT TO AUTHORIZED DISPOSAL SERVICE. PRODUCT FORMS EMULSION IN WATER.**Precautions to Be Taken in Handling and Storing **NEPA CLASS IIIB STORAGE. NORMAL HANDLING AND****STORAGE OF PETROLEUM PRODUCTS**

Other Precautions

Section VIII — Control Measures

Respiratory Protection (Specify Type)

Ventilation	Local Exhaust	YES	Special
	Mechanical (General)		Other

Protective Gloves YES Eye Protection YES

Other Protective Clothing or Equipment

Work/Hygiene Practices **WASH AFTER HANDLING. WEAR SUITABLE CLOTHING TO PREVENT SKIN CONTACT**

PLAY DOUGH Toxicity rating

- Water
 - Wheat flour
 - Sodium chloride
 - Calcium chloride
 - Highly refined mineral spirits low odor
 - Titanium dioxide
 - Aluminum sulfate
 - Borax
 - Color (food dyes)
 - Preservative (sodium benzoate)
 - Perfume

- Day Glo Play Dough
 - Same as above except day glo pigments are used in place of dyes.

SMOKE FLUID FOR TOY ELECTRIC TRAINS

- Pure white mineral oil U.S.P. grade viscosity 85 sec. 1000 parts
- Hexahydrothymol U.S.P. 1 part
- Fractol (mineral oil) 1 part

SMOKE PELLETS FOR TOY ELECTRIC TRAINS

- Santo Wax-M 1 part
- Santo Wax-P 0.15 part
- J. Solvent (approx. 0.2 part)

May contain:

- Tetramethylbenzene
- Xylene
- Ethyl toluene
- Propyl benzene
- Cumene
- Trimethylbenzene
- Ethyl benzene
- Naphthalene

TOY CAPS Toxicity rating 4

- Amorphous red phosphorus
- Potassium chlorate*
- Antimony trisulfide* (see Antimony salts)
- Water-soluble gum
- Inert abrasive

OILS**AROMATIC (see ESSENTIAL OILS, Section II)****BABY (see COSMETICS)****CUTTING OILS**

- Cutting oils—chemical coolants Toxicity rating 3
 - Water 50-90%
 - Rust inhibitors 1-10%
 - Sodium nitrite*
 - Ethanol amines
 - Potassium or sodium soaps
 - Lubricity agents 20-50%
 - Polyether glycols
 - Alkyl-phenol-ethylene oxide condensation products
 - Bactericides 0-1%
 - Chlorophenols
 - Organic mercurials* (see Methyl mercuric chloride)
 - Iodine compounds
 - Formaldehyde releasers
 - Quaternary ammonium compounds

Note: Chemical coolants are usually diluted with from 50 to 150 parts of water to 1 part of the coolant to form the products used in metal-working operations.

CUTTING OILS (Cont.)

- Cutting oils—insoluble type Toxicity rating 2 or 3
 - Mineral oils (including sulfurized mineral oils) 80-100%
 - Fatty oils (including sulfurized fatty oils) 1-40%
 - Sulfur (combined and suspended) 0-10%
 - Chlorine (chlorinated paraffins rarely chlorinated aromatics) 0-10%
 - Phosphorus (organic phosphates and phosphites) 0-1%
- Cutting oils—soluble type Toxicity rating 2 or 3
 - Mineral oils 60-90%
 - Water 1-5%
 - Emulsifiers 5-30%
 - Sodium and amine soaps
 - Sodium sulfonates, naphthenates, rosinsates
 - Coupling agents 1-2%
 - Alcohols
 - Glycol ethers
 - Glycols
 - Rust inhibitors 1-10%
 - Amines
 - Fatty oils
 - Sulfurized fatty oils
 - Bactericides 0-1%
 - Chlorophenols
 - Organic mercurials*
 - Iodine compounds
 - Formaldehyde releasers
 - Quaternary ammonium compounds

Note: Soluble cutting oils are usually diluted with from 10 to 75 parts of water to 1 part of the oil to form emulsions that are used in metal-working operations.

ESSENTIAL OILS (see Section II under OILS and under ESSENTIAL OILS)**FURNACE OILS** Toxicity rating 3

- Petroleum distillates*

GEAR OILS Toxicity rating 2 or 3

- Mineral oils 70-100%
- Lubricity agents, extreme pressure agents, antiwear agents 0-20%
- CI, S.P. compounds
- Fatty oils
- Sulfurized fatty oils
- Chlorinated paraffins*
- Lead soaps, lead naphthenate*
- Tricresyl and other organic phosphates
- Oxidation and corrosion inhibitors 0-5%
- Barium and calcium petroleum sulfonates
- Barium and calcium phenolates*
- 2,6-Ditertiary butyl-*p*-cresol
- Amines, diphenylamine
- Zinc dialkyl dithiophosphates
- Pour depressants and viscosity improvers 0-5%
- Polymethacrylate esters
- Polyisobutylenes
- Alkylstyrene polymers
- Hydrocarbon wax-naphthalene condensation products
- Antifoam agents 0-150 p.p.m.
- Polysiloxanes

GEAR OILS (Cont.)**May contain:**

- Trichloethylene* (as cut-back solvent) 0-25%

GENERAL PURPOSE OILS

- (household, electric motors) Toxicity rating 2 or 3
- Mineral oils 90-100%

May contain:

- Rust inhibitors (sulfonates, amines, fatty oils, fatty acids) 0-10%
- Odorants 0-trace
- Silicone

GREASES

Toxicity rating 2

- Petroleum oils
- Soap (Na, Li, Ca, Al)
- May contain:
 - Barium compounds
 - Borax
 - Chromate
 - Dye
 - Graphite
 - Lead compounds
 - Molybdenum disulfide
 - Talc
 - Zinc salt

METAL PROTECTIVE OILS

- Slushing type Toxicity rating 3
 - Mineral oil 40-60%
 - Stoddard solvent* 40-60%
 - Kerosene* 40-60%
 - May contain:
 - Sodium sulfonates 0-5%
 - Petroleum oxidates 0-5%
- Protective coating type Toxicity rating 2 or 3
 - Asphalts 40-60%
 - Light petroleum distillates* 40-60%
 - May contain:
 - Fatty oils 0-5%
 - Mineral oils 35-60%
 - Petrolatum 30-50%
 - Petroleum wax 0-20%
 - Stoddard solvent* 0-25%
 - Soaps 0-3%

MISCELLANEOUS OILS

Toxicity rating 3 or 4

- Mineral oils
- Additives
- Xylene*
- Alkaline salts of organic acids
- Rust inhibitors
- Kerosene
- Silicone
- Propellant
- Phosphorus trace
- Zinc trace
- Barium trace
- Citronella (home) trace

MOTOR OILS

Toxicity rating 2

- Mineral oils 75-100%
- Oxidation inhibitors and detergents 0-20%
- Zinc dialkyl dithiophosphate
- Phosphorus pentasulfide-terpene addition products
- Barium and calcium petroleum sulfonate
- Barium and calcium phenolates
- Ashless detergents

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